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DATE: Tuesday, June 20, 2006

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	<i>DB=USPT; PLUR=YES; OP=ADJ</i>		
<input type="checkbox"/>	L37	Murphy Brian R.in.	14
<input type="checkbox"/>	L36	fusion and L28	0
<input type="checkbox"/>	L35	chimeric and L28	0
	<i>DB=PGPB; PLUR=YES; OP=ADJ</i>		
<input type="checkbox"/>	L34	chimeric and L28	17
	<i>DB=EPAB; PLUR=YES; OP=ADJ</i>		
<input type="checkbox"/>	L33	chimeric and L28	0
<input type="checkbox"/>	L32	kansas strain	0
	<i>DB=JPAB; PLUR=YES; OP=ADJ</i>		
<input type="checkbox"/>	L31	kansas strain	0
	<i>DB=DWPI; PLUR=YES; OP=ADJ</i>		
<input type="checkbox"/>	L30	kansas strain	1
	<i>DB=USPT; PLUR=YES; OP=ADJ</i>		
<input type="checkbox"/>	L29	kansas strain	5
	<i>DB=PGPB; PLUR=YES; OP=ADJ</i>		
<input type="checkbox"/>	L28	kansas strain	17
<input type="checkbox"/>	L27	L15 and parainfluenza	683
<input type="checkbox"/>	L26	Murphy Brian R.in.	20
	<i>DB=JPAB; PLUR=YES; OP=ADJ</i>		
<input type="checkbox"/>	L25	Murphy Brian R.in.	0
	<i>DB=TDBD; PLUR=YES; OP=ADJ</i>		
<input type="checkbox"/>	L24	Murphy Brian R.in.	0
	<i>DB=EPAB; PLUR=YES; OP=ADJ</i>		
<input type="checkbox"/>	L23	Murphy Brian R.in.	13
<input type="checkbox"/>	L22	Murphy B R.in.	0
<input type="checkbox"/>	L21	parainfluenza and chimeric	5
	<i>DB=PGPB; PLUR=YES; OP=ADJ</i>		
<input type="checkbox"/>	L20	parainfluenza and chimeric.clm.	133
<input type="checkbox"/>	L19	parainfluenza adj chimeric	0
<input type="checkbox"/>	L18	parainfluenza and chimeric	1093
<input type="checkbox"/>	L17	parainfluenza	1993
	L16	chimeric and attenuated.clm.	237

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☐ 1. Document ID: WO 2005014626 A2

L23: Entry 1 of 13

File: EPAB

Feb 17, 2005

PUB-NO: WO2005014626A2

DOCUMENT-IDENTIFIER: WO 2005014626 A2

TITLE: RECOMBINANT HUMAN METAPNEUMOVIRUS AND ITS USE

PUBN-DATE: February 17, 2005

INVENTOR-INFORMATION:

NAME

COUNTRY

COLLINS, PETER L

US

BIACCHESI, STEPHANE

US

BUCHHOLZ, URSULA

US

SKIADOPOULOS, MARIO H

US

MURPHY, BRIAN R

US

INT-CL (IPC): C07 K 14/005

EUR-CL (EPC): C12N007/04; C12N015/86

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	K/MC	Draw D
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☐ 2. Document ID: WO 2004027037 A2

L23: Entry 2 of 13

File: EPAB

Apr 1, 2004

PUB-NO: WO2004027037A2

DOCUMENT-IDENTIFIER: WO 2004027037 A2

TITLE: RECOVERY OF RECOMBINANT HUMAN PARAINFLUENZA VIRUS TYPE 2 (HPIV2) FROM cDNA AND USE OF RECOMBINANT HPIV2 IN IMMUNOGENIC COMPOSITIONS AND AS VECTORS TO ELICIT IMMUNE RESPONSES AGAINST PIV AND OTHER HUMAN PATHOGENS

PUBN-DATE: April 1, 2004

INVENTOR-INFORMATION:

NAME

COUNTRY

SKIADOPOULOS, MARIO H

US

MURPHY, BRIAN R

US

COLLINS, PETER L

US

INT-CL (IPC): C12 N 0/

EUR-CL (EPC): A61K039/155; C07K014/115, C07K014/135 , C12N007/04

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMIC	Draw D
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☐ 3. Document ID: WO 3092592 A2

L23: Entry 3 of 13

File: EPAB

Nov 13, 2003

PUB-NO: WO003092592A2

DOCUMENT-IDENTIFIER: WO 3092592 A2

TITLE: DENGUE TETRAVALENT VACCINE CONTAINING A COMMON 30 NUCLEOTIDE DELETION IN THE 3'-UTR OF DENGUE TYPES 1,2,3, AND 4, OR ANTIGENIC CHIMERIC DENGUE VIRUSES 1,2,3, AND 4

PUBN-DATE: November 13, 2003

INVENTOR-INFORMATION:

NAME	COUNTRY
WHITEHEAD, STEPHEN S	US
MURPHY, BRIAN R	US
MARKOFF, LEWIS	US
FALGOUT, BARRY	US
BLANEY, JOSEPH	US
HANLEY, KATHRYN	US

INT-CL (IPC): A61 K 0/

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMIC	Draw D
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☐ 4. Document ID: WO 3059384 A1

L23: Entry 4 of 13

File: EPAB

Jul 24, 2003

PUB-NO: WO003059384A1

DOCUMENT-IDENTIFIER: WO 3059384 A1

TITLE: CONSTRUCTION OF WEST NILE VIRUS AND DENGUE VIRUS CHIMERAS FOR USE IN A LIVE VIRUS VACCINE TO PREVENT DISEASE CAUSED BY WEST NILE VIRUS

PUBN-DATE: July 24, 2003

INVENTOR-INFORMATION:

NAME	COUNTRY
PLETNEV, ALEXANDER G	US
PUTNAK, JOSEPH R	US
CHANOCK, ROBERT M	US
MURPHY, BRIAN R	US
WHITEHEAD, STEPHEN S	US
BLANEY, JOSEPH E SR	US

INT-CL (IPC): A61 K 39/12

EUR-CL (EPC): A61K039/12; A61K039/295, C12N015/86

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 5. Document ID: WO 3043587 A2

L23: Entry 5 of 13

File: EPAB

May 30, 2003

PUB-NO: WO003043587A2

DOCUMENT-IDENTIFIER: WO 3043587 A2

TITLE: RECOVERY OF RECOMBINANT HUMAN PARAINFLUENZA VIRUS TYPE 1 (HPIVI) FROM CDNA
AND USE OF RECOMBINANT HPIVI IN IMMUNOGENIC COMPOSITIONS AND AS VECTORS TO ELICIT
IMMUNE RESPONSES AGAINST PIV AND OTHER HUMAN PATHOGENS

PUBN-DATE: May 30, 2003

INVENTOR-INFORMATION:

NAME	COUNTRY
MURPHY, BRIAN R	US
COLLINS, PETER L	US
SKIADOPOULOS, MARIO H	US
NEWMAN, JASON T	US

INT-CL (IPC): A61 K 0/

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 6. Document ID: WO 2095075 A1

L23: Entry 6 of 13

File: EPAB

Nov 28, 2002

PUB-NO: WO002095075A1

DOCUMENT-IDENTIFIER: WO 2095075 A1

TITLE: DEVELOPMENT OF MUTATIONS USEFUL FOR ATTENUATING DENGUE VIRUSES AND CHIMERIC
DENGUE VIRUSES

PUBN-DATE: November 28, 2002

INVENTOR-INFORMATION:

NAME	COUNTRY
WHITEHEAD, STEPHEN S	US
MURPHY, BRIAN R	US
HANLEY, KATHRYN A	US

INT-CL (IPC): C12 Q 1/70; C12 N 7/00; C12 N 7/04; C12 P 19/34; G01 N 33/53;
G01 N 33/48; A61 K 39/12; A61 K 39/42; C07 H 21/02; C07 H 21/04
EUR-CL (EPC): C12N007/04

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 7. Document ID: WO 9853078 A1

L23: Entry 7 of 13

File: EPAB

Nov 26, 1998

PUB-NO: WO009853078A1

DOCUMENT-IDENTIFIER: WO 9853078 A1

TITLE: PRODUCTION OF ATTENUATED PARAINFLUENZA VIRUS VACCINES FROM CLONED NUCLEOTIDE SEQUENCES

PUBN-DATE: November 26, 1998

INVENTOR-INFORMATION:

NAME	COUNTRY
MURPHY, BRIAN R	US
COLLINS, PETER L	US
DURBIN, ANNA P	US
SKIADOPOULOS, MARIO H	US
TAO, TAO	US

INT-CL (IPC): C12 N 15/45; C07 K 14/115; C12 N 5/10; C12 N 7/01; A61 K 39/155

EUR-CL (EPC): C07K014/115

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 8. Document ID: WO 9813501 A2

L23: Entry 8 of 13

File: EPAB

Apr 2, 1998

PUB-NO: WO009813501A2

DOCUMENT-IDENTIFIER: WO 9813501 A2

TITLE: 3' GENOMIC PROMOTER REGION AND POLYMERASE GENE MUTATIONS RESPONSIBLE FOR ATTENUATION IN VIRUSES OF THE ORDER DESIGNATED MONONEGAVIRALES

PUBN-DATE: April 2, 1998

INVENTOR-INFORMATION:

NAME	COUNTRY
UDEM, STEPHEN A	US
SIDHU, MOHINDERJIT S	US
TATEM, JOANNE M	US
MURPHY, BRIAN R	US
RANDOLPH, VALERIE B	US

INT-CL (IPC): C12 N 15/45; C12 N 15/47; C12 N 15/40; C07 K 14/12; C07 K 14/115; C07 K 14/135; C12 N 7/04; A61 K 39/165; A61 K 39/155; C07 K 14/145; C07 K 14/08

EUR-CL (EPC): C07K014/115; C07K014/12, C07K014/135

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 9. Document ID: WO 9802530 A1

L23: Entry 9 of 13

File: EPAB

Jan 22, 1998

PUB-NO: WO009802530A1

DOCUMENT-IDENTIFIER: WO 9802530 A1

TITLE: PRODUCTION OF ATTENUATED RESPIRATORY SYNCYTIAL VIRUS VACCINES FROM CLONED NUCLEOTIDE SEQUENCES

PUBN-DATE: January 22, 1998

INVENTOR-INFORMATION:

NAME	COUNTRY
MURPHY, BRIAN R	US
COLLINS, PETER L	US
WHITEHEAD, STEPHEN S	US
BUKREYEV, ALEXANDER A	US
JUHASZ, KATALIN	US
TENG, MICHAEL N	US

INT-CL (IPC): C12 N 7/04; C12 N 7/01; A61 K 39/155; C12 N 15/45; C12 N 7/00

EUR-CL (EPC): C07K014/135; C12N007/04

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 10. Document ID: WO 9710846 A1

L23: Entry 10 of 13

File: EPAB

Mar 27, 1997

PUB-NO: WO009710846A1

DOCUMENT-IDENTIFIER: WO 9710846 A1

TITLE: NEUTRALIZING MONOCLONAL ANTIBODIES TO RESPIRATORY SYNCYTIAL VIRUS

PUBN-DATE: March 27, 1997

INVENTOR-INFORMATION:

NAME	COUNTRY
PILKINGTON, GLENN R	US
GILMOUR, PAGE S	US
CHANOCK, ROBERT M	US
CROWE, JAMES E JR	US
MURPHY, BRIAN R	US

INT-CL (IPC): A61 K 39/42; A61 K 48/00; A61 K 51/00; C07 K 16/10; G01 N 33/569;
G01 N 33/577

EUR-CL (EPC): A61K051/10; C07K016/10, G01N033/569

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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DOCUMENT-IDENTIFIER: US 5690937 A

TITLE: Temperature sensitive clustered changed-to-alanine mutants of influenza virus PB2 gene

DATE-ISSUED: November 25, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Parkin; Neil T.	Belmont	CA		
<u>Coelingh; Kathleen L.</u>	San Francisco	CA		

US-CL-CURRENT: 424/199.1; 424/209.1, 435/236, 536/23.72

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWC	Draw. D
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Terms	Documents
Coelingh Kathleen L.in.	5

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☐ 3. Document ID: US 6764685 B1

L5: Entry 3 of 5

File: USPT

Jul 20, 2004

US-PAT-NO: 6764685

DOCUMENT-IDENTIFIER: US 6764685 B1

TITLE: Recombinant parainfluenza virus expression systems and vaccines

DATE-ISSUED: July 20, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Haller; Auriela	Redwood City	CA		
<u>Coelingh; Kathleen L.</u>	San Francisco	CA		

US-CL-CURRENT: 424/211.1; 424/192.1, 424/202.1, 424/204.1, 435/69.7

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 4. Document ID: US 5693762 A

L5: Entry 4 of 5

File: USPT

Dec 2, 1997

US-PAT-NO: 5693762

DOCUMENT-IDENTIFIER: US 5693762 A

TITLE: Humanized immunoglobulins

DATE-ISSUED: December 2, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Queen; Cary L.	Los Altos	CA		
Co; Man Sung	Cupertino	CA		
Schneider; William P.	Mountain View	CA		
Landolfi; Nicholas F.	Milpitas	CA		
<u>Coelingh; Kathleen L.</u>	San Francisco	CA		
Selick; Harold E.	Belmont	CA		

US-CL-CURRENT: 530/387.3; 424/133.1, 424/143.1, 530/388.22

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 5. Document ID: US 5690937 A

L5: Entry 5 of 5

File: USPT

Nov 25, 1997

US-PAT-NO: 5690937

- ☐ 13: [MacPhail M, Schickli JH, Tang RS, Kaur J, Robinson C, Fouchier RA, Osterhaus AD, Spaete RR, Haller AA.](#) [Related Articles, Links](#)
-  Identification of small-animal and primate models for evaluation of vaccine candidates for human metapneumovirus (hMPV) and implications for hMPV vaccine design.
J Gen Virol. 2004 Jun;85(Pt 6):1655-63.
PMID: 15166450 [PubMed - indexed for MEDLINE]
- ☐ 14: [Durbin AP, Wyatt LS, Siew J, Moss B, Murphy BR.](#) [Related Articles, Links](#)
-  The immunogenicity and efficacy of intranasally or parenterally administered replication-deficient vaccinia-parainfluenza virus type 3 recombinants in rhesus monkeys.
Vaccine. 1998 Aug;16(13):1324-30.
PMID: 9682397 [PubMed - indexed for MEDLINE]
- ☐ 15: [Skiadopoulos MH, Tao T, Surman SR, Collins PL, Murphy BR.](#) [Related Articles, Links](#)
-  Generation of a parainfluenza virus type 1 vaccine candidate by replacing the HN and F glycoproteins of the live-attenuated PIV3 cp45 vaccine virus with their PIV1 counterparts.
Vaccine. 1999 Oct 14;18(5-6):503-10.
PMID: 10519940 [PubMed - indexed for MEDLINE]
- ☐ 16: [Pennathur S, Haller AA, MacPhail M, Rizzi T, Kaderi S, Fernandes F, Bicha L, Schickli JH, Tang RS, Chen W, Nguyen N, Mathie S, Mehta H, Coelingh KL.](#) [Related Articles, Links](#)
-  Evaluation of attenuation, immunogenicity and efficacy of a bovine parainfluenza virus type 3 (PIV-3) vaccine and a recombinant chimeric bovine/human PIV-3 vaccine vector in rhesus monkeys.
J Gen Virol. 2003 Dec;84(Pt 12):3253-61.
PMID: 14645907 [PubMed - indexed for MEDLINE]
- ☐ 17: [Schmidt AC, McAuliffe JM, Huang A, Surman SR, Bailly JE, Elkins WR, Collins PL, Murphy BR, Skiadopoulos MH.](#) [Related Articles, Links](#)
-  Bovine parainfluenza virus type 3 (BPIV3) fusion and hemagglutinin-neuraminidase glycoproteins make an important contribution to the restricted replication of BPIV3 in primates.
J Virol. 2000 Oct;74(19):8922-9.
PMID: 10982335 [PubMed - indexed for MEDLINE]
- ☐ 18: [Buchholz UJ, Biacchesi S, Pham QN, Tran KC, Yang L, Luongo CL, Skiadopoulos MH, Murphy BR, Collins PL.](#) [Related Articles, Links](#)
-  Deletion of M2 gene open reading frames 1 and 2 of human metapneumovirus: effects on RNA synthesis, attenuation, and immunogenicity.
J Virol. 2005 Jun;79(11):6588-97.
PMID: 15890897 [PubMed - indexed for MEDLINE]
- ☐ 19: [Tao T, Durbin AP, Whitehead SS, Davoodi F, Collins PL, Murphy BR.](#) [Related Articles, Links](#)
-  Recovery of a fully viable chimeric human parainfluenza virus (PIV) type 3 in which the hemagglutinin-neuraminidase and fusion glycoproteins have been replaced by those of PIV type 1.
J Virol. 1998 Apr;72(4):2955-61.
PMID: 9525616 [PubMed - indexed for MEDLINE]
- [Durbin AP, Skiadopoulos MH, McAuliffe JM, Riggs JM,](#)

☐ 20: [Surman SR, Collins PL, Murphy BR.](#)

[Related Articles, Links](#)



Human parainfluenza virus type 3 (PIV3) expressing the hemagglutinin protein of measles virus provides a potential method for immunization against measles virus and PIV3 in early infancy.

J Virol. 2000 Aug;74(15):6821-31.

PMID: 10888621 [PubMed - indexed for MEDLINE]

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used to achieve simultaneous mucosal immunization against RSV and HPIV3.

J Virol. 2001 May;75(10):4594-603.

PMID: 11312329 [PubMed - indexed for MEDLINE]

- ☐ 7: [van Wyke Coelingh KL](#), [Winter CC](#), [Tierney EL](#), [Hall SL](#), [London WT](#), [Kim HW](#), [Chanock RM](#), [Murphy BR](#). Related Articles, Links



Antibody responses of humans and nonhuman primates to individual antigenic sites of the hemagglutinin-neuraminidase and fusion glycoproteins after primary infection or reinfection with parainfluenza type 3 virus.

J Virol. 1990 Aug;64(8):3833-43.

PMID: 1695256 [PubMed - indexed for MEDLINE]

- ☐ 8: [Skiadopoulos MH](#), [Biacchesi S](#), [Buchholz UJ](#), [Riggs JM](#), [Surman SR](#), [Amaro-Carambot E](#), [McAuliffe JM](#), [Elkins WR](#), [St Claire M](#), [Collins PL](#), [Murphy BR](#). Related Articles, Links



The two major human metapneumovirus genetic lineages are highly related antigenically, and the fusion (F) protein is a major contributor to this antigenic relatedness.

J Virol. 2004 Jul;78(13):6927-37.

PMID: 15194769 [PubMed - indexed for MEDLINE]

- ☐ 9: [Skiadopoulos MH](#), [Schmidt AC](#), [Riggs JM](#), [Surman SR](#), [Elkins WR](#), [St Claire M](#), [Collins PL](#), [Murphy BR](#). Related Articles, Links



Determinants of the host range restriction of replication of bovine parainfluenza virus type 3 in rhesus monkeys are polygenic.

J Virol. 2003 Jan;77(2):1141-8.

PMID: 12502830 [PubMed - indexed for MEDLINE]

- ☐ 10: [Tao T](#), [Davoodi F](#), [Cho CJ](#), [Skiadopoulos MH](#), [Durbin AP](#), [Collins PL](#), [Murphy BR](#). Related Articles, Links



A live attenuated recombinant chimeric parainfluenza virus (PIV) candidate vaccine containing the hemagglutinin-neuraminidase and fusion glycoproteins of PIV1 and the remaining proteins from PIV3 induces resistance to PIV1 even in animals immune to PIV3.

Vaccine. 2000 Jan 31;18(14):1359-66.

PMID: 10618533 [PubMed - indexed for MEDLINE]

- ☐ 11: [Durbin AP](#), [Cho CJ](#), [Elkins WR](#), [Wyatt LS](#), [Moss B](#), [Murphy BR](#). Related Articles, Links



Comparison of the immunogenicity and efficacy of a replication-defective vaccinia virus expressing antigens of human parainfluenza virus type 3 (HPIV3) with those of a live attenuated HPIV3 vaccine candidate in rhesus monkeys passively immunized with PIV3 antibodies.

J Infect Dis. 1999 Jun;179(6):1345-51.

PMID: 10228053 [PubMed - indexed for MEDLINE]

- ☐ 12: [Tao T](#), [Skiadopoulos MH](#), [Durbin AP](#), [Davoodi F](#), [Collins PL](#), [Murphy BR](#). Related Articles, Links



A live attenuated chimeric recombinant parainfluenza virus (PIV) encoding the internal proteins of PIV type 3 and the surface glycoproteins of PIV type 1 induces complete resistance to PIV1 challenge and partial resistance to PIV3 challenge.

Vaccine. 1999 Mar 5;17(9-10):1100-8.

PMID: 10195620 [PubMed - indexed for MEDLINE]



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- ☐ 1: [Tang RS, Mahmood K, Macphail M, Guzzetta JM, Haller AA, Liu H, Kaur J, Lawlor HA, Stillman EA, Schickli JH, Fouchier RA, Osterhaus AD, Spaete RR.](#) Related Articles, Links



A host-range restricted parainfluenza virus type 3 (PIV3) expressing the human metapneumovirus (hMPV) fusion protein elicits protective immunity in African green monkeys.
Vaccine. 2005 Feb 25;23(14):1657-67.
PMID: 15705469 [PubMed - indexed for MEDLINE]

- ☐ 2: [Schmidt AC, Wenzke DR, McAuliffe JM, St Claire M, Elkins WR, Murphy BR, Collins PL.](#) Related Articles, Links



Mucosal immunization of rhesus monkeys against respiratory syncytial virus subgroups A and B and human parainfluenza virus type 3 by using a live cDNA-derived vaccine based on a host range-attenuated bovine parainfluenza virus type 3 vector backbone.
J Virol. 2002 Feb;76(3):1089-99.
PMID: 11773385 [PubMed - indexed for MEDLINE]

- ☐ 3: [Tang RS, Schickli JH, MacPhail M, Fernandes F, Bicha L, Spaete J, Fouchier RA, Osterhaus AD, Spaete R, Haller AA.](#) Related Articles, Links



Effects of human metapneumovirus and respiratory syncytial virus antigen insertion in two 3' proximal genome positions of bovine/human parainfluenza virus type 3 on virus replication and immunogenicity.
J Virol. 2003 Oct;77(20):10819-28.
PMID: 14512532 [PubMed - indexed for MEDLINE]

- ☐ 4: [Tang RS, MacPhail M, Schickli JH, Kaur J, Robinson CL, Lawlor HA, Guzzetta JM, Spaete RR, Haller AA.](#) Related Articles, Links



Parainfluenza virus type 3 expressing the native or soluble fusion (F) Protein of Respiratory Syncytial Virus (RSV) confers protection from RSV infection in African green monkeys.
J Virol. 2004 Oct;78(20):11198-207.
PMID: 15452239 [PubMed - indexed for MEDLINE]

- ☐ 5: [Tao T, Skiadopoulos MH, Davoodi F, Riggs JM, Collins PL, Murphy BR.](#) Related Articles, Links



Replacement of the ectodomains of the hemagglutinin-neuraminidase and fusion glycoproteins of recombinant parainfluenza virus type 3 (PIV3) with their counterparts from PIV2 yields attenuated PIV2 vaccine candidates.
J Virol. 2000 Jul;74(14):6448-58.
PMID: 10864657 [PubMed - indexed for MEDLINE]

- ☐ 6: [Schmidt AC, McAuliffe JM, Murphy BR, Collins PL.](#) Related Articles, Links



Recombinant bovine/human parainfluenza virus type 3 (B/HPIV3) expressing the respiratory syncytial virus (RSV) G and F proteins can be

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☐ 1. Document ID: US 6843996 B1

L5: Entry 1 of 5

File: USPT

Jan 18, 2005

US-PAT-NO: 6843996

DOCUMENT-IDENTIFIER: US 6843996 B1

TITLE: Immunogenic composition comprising an influenza virus with a temperature sensitive PB2 mutation

DATE-ISSUED: January 18, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Parkin; Neil T.	South San Francisco	CA		
Coelingh; Kathleen L.	Mountain View	CA		

US-CL-CURRENT: 424/206.1; 424/209.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 2. Document ID: US 6811784 B2

L5: Entry 2 of 5

File: USPT

Nov 2, 2004

US-PAT-NO: 6811784

DOCUMENT-IDENTIFIER: US 6811784 B2

**** See image for Certificate of Correction ****

TITLE: Recombinant parainfluenza virus expression system and vaccines

DATE-ISSUED: November 2, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Haller; Aurelia	Boulder	CO		
Coelingh; Kathleen L.	San Francisco	CA		

US-CL-CURRENT: 424/192.1; 424/204.1, 424/211.1, 435/69.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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<input type="checkbox"/>			
<input type="checkbox"/>	L15	chimeric and attenuated	4821
<input type="checkbox"/>	L14	chimeric human bovine	14
<input type="checkbox"/>	L13	chimeric virus.clm.	40
<input type="checkbox"/>	L12	chimeric.clm.	5979
<input type="checkbox"/>	L11	chimeric	29649
<input type="checkbox"/>	L10	chimeric parainfluenza	10
<input type="checkbox"/>	L9	Murphy Brian R.in.	20
<input type="checkbox"/>	L8	Bailly Jane E.in.	1
<input type="checkbox"/>	L7	Bailly J E.in.	0

DB=DWPI; PLUR=YES; OP=ADJ

<input type="checkbox"/>	L6	Bailly J E.in.	1
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DB=USPT; PLUR=YES; OP=ADJ

<input type="checkbox"/>	L5	Coelingh Kathleen L.in.	5
<input type="checkbox"/>	L4	Haller Aurelia.in.	1
<input type="checkbox"/>	L3	6811784	1
<input type="checkbox"/>	L2	Haller Auriela.in.	1
<input type="checkbox"/>	L1	6764685	1

END OF SEARCH HISTORY